

AMENDMENT TO THE CLAIMS:

The following claims replace all prior versions and listings of claims in the application:

1. (Currently Amended) A PCI-based mezzanine card (PMC), comprising:
 - a data bus connector for connecting the PCI-based mezzanine card (PMC) to a data bus of a circuit card;
 - a switch comprising a network port that allows the switch to connect directly to a second switch on ~~the network~~ a network; and
 - a bridge, connected between the switch and the data bus connector.

2. (Currently Amended) A system for networking multiple computer cards for data transfer, comprising:
 - a plurality of networked circuit cards, each card comprising:
 - a processor connected to a bus;
 - a PCI-based mezzanine card (PMC), connected to the circuit card and connected to the bus for access the processor of the circuit card, comprising a switch connected to a network and a bridge that is connected between the switch and the circuit card ~~data~~ bus;
 - wherein each switch is directly connected to at least one other switch over the

network, and

each PMC bridge can bridge data transfer from each processor between each circuit card's data bus and each PMC switch that is connected to the network.

3. (Previously Presented) The card of claim 1, wherein, when the switch is directly connected to the second switch over the network, the PMC allows data transfers through the network to and from the bus of the circuit card.

4. (Currently Amended) The card of claim 1, wherein the bridge comprises an edge node that is ~~the terminating~~ a terminating point for data signals received from the network through the switch.

5. (Previously Presented) The card of claim 1, wherein the switch further comprises a plurality of network ports for connecting the switch directly to a plurality of other switches on the network.

6. (Currently Amended) ~~A system 1. (Currently Amended)~~ A device for digital processing, comprising:

a circuit card comprising a processor connected to a data bus;

a PCI-based mezzanine card (PMC), comprising a switch and a bridge,

wherein the switch comprises a network port that allows the switch to connect directly to other switches on a network and ~~a bridge that~~ the bridge is connected between the switch and the circuit card data bus.

7. (Previously Presented) The device of claim 6, wherein, when the switch is directly connected to another switch over the network, the PMC allows data transfers through the network to and from the processor of the circuit card.

8. (Currently Amended) The device of claim 6, wherein the bridge comprises an edge node that is ~~the terminating~~ a terminating point for data signals received from the network through the switch.

9. (Previously Presented) The device of claim 6, wherein the switch further comprises a plurality of network ports for connecting the switch directly to a plurality of other switches on the network.

10. (Previously Presented) The device of claim 6, wherein the bus is a PCI bus.

11. (Previously Presented) The system of claim 2, wherein the data bus is a PCI bus.

12. (Currently Amended) The system of claim 2, wherein each bridge comprises an edge node that is ~~the terminating~~ a terminating point for data signals received from the network through each switch.

13. (Previously Presented) The system of claim 2, wherein a data bus space on the data bus of a first circuit card of the plurality of circuit cards on the network comprises an address range with blocks that are mapped to the processor on a second circuit card of the plurality of circuit cards on the network.

14. (Currently Amended) The system of claim 13, wherein when the processor of the first circuit reads or writes into the data bus space, ~~the~~ data is routed over the network to the processor on the second circuit card.